



(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
09.10.1996 Bulletin 1996/41

(51) Int. Cl.⁶: H04J 3/08, H04J 3/14

(43) Date of publication A2:
10.05.1995 Bulletin 1995/19

(21) Application number: 94112644.3

(22) Date of filing: 12.08.1994

(84) Designated Contracting States:
DE FR GB

(30) Priority: 08.11.1993 JP 278414/93

(71) Applicant: FUJITSU LIMITED
Kawasaki-shi, Kanagawa 211 (JP)

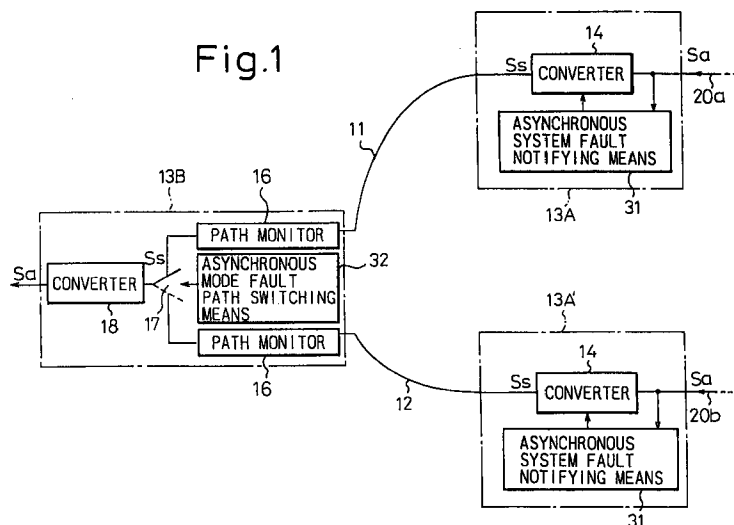
(72) Inventor: Nishimura, Koichi,
c/o Fujitsu Limited
Kawasaki-shi, Kanagawa 211 (JP)

(74) Representative: Lehn, Werner, Dipl.-Ing. et al
Hoffmann, Eitle & Partner,
Patentanwälte,
Arabellastrasse 4
81925 München (DE)

(54) Synchronous/asynchronous system having function of switching path upon fault

(57) A composite asynchronous/synchronous system switches signal paths at the time of a fault and uses a route diversity function even when a fault occurs in the asynchronous mode signal. The composite system includes asynchronous system fault notifying means (31) in each of the connection offices (13A) connecting the synchronous communication system and the asynchronous communication system. When an asynchronous system alarm indication signal AIS shows suspension of the asynchronous mode signal or a fault in the signal, the notifying means converts a fault detec-

tion signal to information recognizable in the synchronous mode and sends the information to an asynchronous system fault path switching means (32) which is provided in the path termination office (13B). The switching means detects the fault detection signal generated in the asynchronous mode, or receives the fault detection signal sent from the asynchronous system fault notifying means, and switches paths formed on ring-like transmission lines.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 94 11 2644

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	GLOBECOM '92. COMMUNICATION FOR GLOBAL USERS. IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE. CONFERENCE RECORD. (CAT. NO.92CH3130-2), ORLANDO, FL, USA, 6-9 DEC. 1992, ISBN 0-7803-0608-2, 1992, NEW YORK, NY, USA, IEEE, USA, pages 834-840 vol.2, XP000357681 WU T H ET AL: "A broadband virtual path SONET/ATM self-healing ring architecture and its economic feasibility study" * page 837, right-hand column, line 42 - page 838, left-hand column, line 5 *	1,10-13	H04J3/08 H04J3/14
A	CCITT DRAFT RECOMMENDATION I.610, "B-ISDN OPERATION AND MAINTENANCE PRINCIPLES AND FUNCTIONS", JUNE 1992, XP002010650 * SECTION 6 *	1-14	
A	US-A-4 759 009 (CASADY ET AL.) * column 2, line 59 - column 3, line 9 * * column 5, line 10 - line 68 *	1,10-13	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14 August 1996	Examiner Canali, F
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P/MC01)